

## BOM -Minerva

Designator	Comment	Description	Footprint	Quantity	Value
BT1	BR-LE4.0-D2A	BR-LE4.0-D2A	WML-C29A	1	
C1, C5, C7, C11, C14, C18, C27, C31	C0402	Capacitor	C0402	8	1nF
C2, C6, C8, C12, C15, C19, C28, C32, C33, C34, C36, C37, C40, C41	C0402	Capacitor	C0402	14	100nF
C3, C9, C16, C21, C24, C26, C29, C35, C38, C39, C42, C44, C46, C48	C0402	Capacitor	C0402	14	1uF
C4, C10, C17, C25, C30, C43, C45	C0402	Capacitor	C0402	7	0.1uF
C13, C23	C0402	Capacitor	C0402	2	0.01uF
C20	C0603	Capacitor	C0402	1	22uF
C22	C0603	Capacitor	C0402	1	10uF
C47, C49	C0603	Capacitor	C0603	2	4.7uF
D1	LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	3.2X1.6X1.1	1	
FID1, FID2, FID3	FD	Fiducial 1.5mm	Fiducial	3	
IC1	MCP6041T-E/OT	MCP6041T-E/OT	SOT23-5	1	
JP1	2x3 pinos	Pinos Macho Duplos 2.54mm	IDC-6	1	
L1	5R		1206R	1	
P1	WN09DH		WN06DH	1	
P2	1551629-2	Micro USB Splashproof	microUSB	1	
P3	Header 2	Header, 2-Pin	HDR1X2	1	
Q2	TP0101K	MOSFET P-channel 20V, 0.58A, SOT23	SOT-23	1	
R1, R23, R25, R26, R27, R30, R31, R32, R33, R40, R41, R42, R43	R0402	Resistor	R0402	13	10k
R2, R3, R4, R5, R6, R7, R8, R9, R11, R12, R13, R14, R18, R19, R20, R21	R0402	Resistor	R0402	16	348k
R10, R16, R17	R0402	Resistor	R0402	3	392k
R15, R22, R24, R38	R0402	Resistor	R0402	4	0
R28, R29	R0402	Resistor	R0402	2	300K
R34	R0402	Resistor	R0402	1	470
R35, R37, R44	R0402	Resistor	R0402	3	100k
R36, R45, R46, R47, R48, R49, R50, R51	R0402	Resistor	R0402	8	1M
R39	R0402	Resistor	R0402	1	330k
RGB1, RGB2, RGB3, RGB4, RGB5, RGB6	RGB	LX0404SIUPGUSB	LX0404SIUPGUSB	6	
SW1			Push Button	1	
U1	ADS1294IPAG	4-Channel, 24-Bit ADC with Integrated ECG Front End, -40 to 85 degC, 64-pin QFP (PAG64), Green (RoHS & no Sb/Br)	TI-PAG64_N	1	
U2	ATmega1284P-MUR	8-bit AVR Microcontroller, 128KB Flash, 4KB EEPROM, 16KB SRAM, 44-pin VQFN, Industrial Grade (-40°C to 85°C), Reel	44M1_N	1	
U3	MMA8652FCR1	Accelerometer 3-Axis, 2g/4g/8g, 12 bit, DFN-10 (MMA8652FCR1)	MMA8652FC	1	
U4	IS31FL3199		VQFN-20 (3x3mm)	1	
U5	TPS78233	Voltage regulator LDO, 150mA, IQ 0,5uA, SOT23-5 (TPS78233DDC)	SOT23-5	1	

U6		Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel			
	MCP73831T-2ACI/OT		SOT23-5	1	
U7	NCP300L	Voltage detector 3.4V, SOT23-5 NCP300L	SOT23-5	1	
Y1	Resonator	AVX	Resonator	1	